

# Communiqué

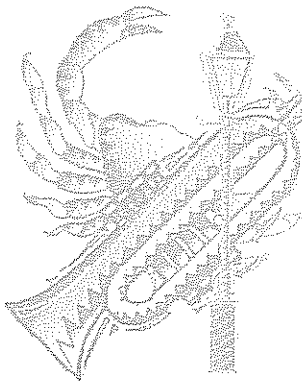
Summer 1998

## Call for Abstracts

March 14-18  
New Orleans, Louisiana

The 1999 Annual Meeting is scheduled for March 14-18, 1999 in New Orleans, LA. SOT expects that its return to this popular site will make registrations for this meeting greater than ever. A Preliminary Information Packet, including the Abstract, Registration, and Travel Forms, was sent to members in late July. *Abstracts are due October 1, 1998.* (See article on page 6 describing the new electronic abstract submission system.)

NEW ORLEANS, LA



MARCH 14-18, 1999

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## Poster/ Discussion Solicitation

The primary objective of the Poster Discussion format is to foster and encourage public discussion and debate of important scientific issues relevant to the major themes in the poster sessions. A secondary objective is to provide specific feedback to the authors concerning their data and its interpretations.

To help meet these objectives, the Program Committee revised the guidelines and format for Poster Discussion sessions. The session chairpersons are now asked to group abstracts according to 2-3 selected topic areas and identify key issues to be addressed during the discussion segment of the session. The poster presenters will be asked to be prepared to address these during the session rather than summarize the key findings for their posters. Chairpersons will act to promote and facilitate discussion of the key issues identified for each topic area. The Program Committee believes that the opportunity for an exchange of ideas will be enhanced if the presenters and the audience can discuss one topic at a time.

Therefore, in a continuing effort to strengthen the Annual Meeting Scientific program, the Program Committee is encouraging interested parties to submit pre-solicited groupings of meeting abstracts which would

*Continued on page 7*

## What is Available to Regional Chapters from SOT

The Regional Chapters are flourishing and are a critical component to the growth and success of the SOT and the discipline of toxicology. One of the daunting tasks for the new officers of Regional Chapters is to put together the scientific program for the Regional Chapter's annual meeting. With this in mind, it is important that the Regional Chapter members are aware of the support that SOT provides for the Regional Chapters.

### 1. Speakers:

#### a. Continuing Education Speakers Bureau

There is a list of the CE Speakers who have agreed to do a presentation on the topic they presented at the annual meeting. SOT will cover the travel costs for these speakers.

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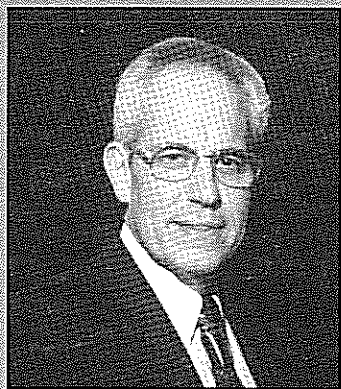
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*Steven D. Cohen, D.Sc.  
1998-99 President of the  
Society of Toxicology*

## FUTURE SOT ANNUAL MEETINGS

- 1999: *March 14-18  
New Orleans,  
Louisiana*
- 2000: *March 12-16  
Philadelphia,  
Pennsylvania*
- 2001: *March 25-29  
San Francisco,  
California*
- 2002: *March 18-22  
Nashville,  
Tennessee*

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# PRESIDENT'S MESSAGE

## COUNCIL OF SCIENTIFIC SOCIETY PRESIDENTS AND SOT INITIATIVES

On May 1, 1998, I became president of SOT. On May 2-5, I represented SOT at the (CSSP) meeting. Needless to say I was the novice in the group of approximately 60 leaders who collectively represent 500,000 scientists. The entire spectrum of science was represented and although there were no simultaneous sessions, the meeting was intense with lectures through lunches and almost no breaks. In many respects it was, for me, like being a kid in a candy store. With no immediate demands on my time, I was able to learn the latest on topics with which I was familiar and many that I either did not know about or hadn't thought about since I was a student: galaxy formation, ecosystems, nanomachines, atmospheric change, ethical limits of research, global changes, super colliders, etc. So, other than providing an opportunity for your president to have an intellectually stimulating good time, what's the advantage to SOT of CSSP membership? It is a unique environment for new ideas, for important networking, and for development of collaborations. For example, there were formal presentations and active discussions on issues of universal interest, e.g., grassroots e-mail systems, interaction with science journalists, international science and competitiveness, 21st century cyberspace. Importantly, there were also briefings from members of Congress and the Office of Science and Technology Policy of the Executive Office of the President. I returned from the meeting very excited and enthusiastic about the many opportunities and challenges facing SOT as a small, but hopefully significant member of the community of science. The underlying and often repeated theme of the meeting was **the need to address the growing rift between scientific research and public understanding**. As scientists, we must all do our part to help the public to understand the **value of science and technology to the nation's future**. Consider the following:

- About 70 percent of Americans indicate an interest in science and, although this is increasing, only one in five think they are well informed about new scientific discoveries.
- Americans appear to understand basic scientific concepts at least as well as other industrialized nations, but only one in four Americans understands the process of scientific discovery, necessitating that the scientific community communicate its work more clearly and effectively.
- The public looks to scientists for answers, but often develops a mistrust for science if the message contains confusing jargon. The public must understand that honest differences of opinion among scientists are part of the scientific process and should not result in an uneasy feeling about science in general.
- For congress to both support science and use the results of scientific research in its deliberations, there must be constitutive initiatives which call for such activity.
- Congressional "friends of science" are few in number. They need assistance in educating their colleagues on the hill about the scientific method and about the opportunities and limitations of science.
- Similarly, scientifically literate members of the media are also few in number. While scientists need to learn how to communicate to the media, they also must work to raise the level of scientific understanding within that profession.

## WHAT ROLE CAN SOT PLAY? WHAT ARE WE DOING NOW?

Many of the CSSP member societies have ongoing programs that address the above issues. SOT can easily take a leadership role in several areas and our initiatives will complement and can serve as models for those of the other groups. Appropriately, our initiatives should emphasize toxicology. For example, the Regulatory Affairs and Legislative Assistance Committee, chaired by **John DeSesso**, has initiated the Congressional Fellow program to educate policy-makers about the importance of science. The Committee on Public Communications, chaired by **Joy Cavagnaro**, will again hold a public forum in association with our Annual Meeting. This year's theme will be *Poisons in Your Home* and fits within our *Paracelsus to the People* initiative described in my previous message. Other plans for this initiative include conducting focus groups to evaluate the effectiveness of media; developing public service announcements emphasizing "the dose makes the poison;" and coordinating additional media training for our members (check your Annual Meeting Preliminary Information Packet for information); so that our messages to the public are clear, focused, and most importantly – believable. Another initiative being considered is the development of workshops on the fundamentals of toxicology for media representatives who cover our Annual Meeting. The Education Committee, chaired by **Claude McGowan**, continues to expand the toxicology training program for K-12. Importantly, this year our Allegheny-Erie Chapter, led by President **Anna Shvedova**, conducted a very successful teacher workshop in association with its 10th anniversary meeting. (Congratulations on both counts!) The World Wide Web Task Force, chaired by **Mary Davis**, will coordinate the redesign of the SOT Web site to increase our internet reach beyond members to the general public and media. Being considered for our site are separate, password entry sections for members, along with open sections which will contain information of interest to the media and public (information not just about SOT, but about toxicology – the science and profession). Possibilities to be considered for this include: background information on contemporary toxicology issues; a glossary of terms; science experiments for teachers; and graphics with quick explanatory text. The Board of Publications, chaired by **Gary Carlson**, will continue to oversee the two SOT journals: *Toxicological Sciences* and *Toxicological and Applied Pharmacology*. The Board is considering, as its contribution to public understanding of toxicology, the

creation of a section for our public access Web site that will contain abstracts or reviews based on selected papers in our journals. These will be aimed at the public and may also be selectively distributed to science journalists. Finally, CSSP is working to develop a quick-alert e-mail network to facilitate critical constituent input to key members of Congress. According to current and past members of Congress, such input is the most effective manner of influencing legislation that may enhance or impede the sciences and their role in society.

While many of the initiatives described above involve SOT committees at the national level, it is important that you don't forget the strength that you have locally as an individual and through your **SOT Regional Chapter**. Grassroots efforts have proven to be effective. So take time to meet your government representatives, speak at your local schools and civic meetings about important toxicological issues, and/or contribute regularly to your local newspaper. Spread the news about the importance of science in general, and toxicology in particular – the health and welfare of our nation depends on both. Above all, become an activist for the toxicological sciences and speak out on important issues. If toxicologists who know the science don't participate, then Congress and the regulatory agencies will get their information from those least qualified to give it.

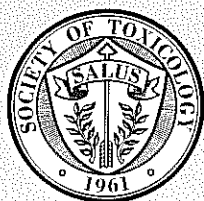
Coincidentally, by the time you read this message you should have received a letter from our Vice President, Jay Goodman, along with a copy of my letter on behalf of Council to EPA administrator Carol Browner. If you have not already done so, I urge you to heed Jay's message and speak up for the importance of integrating sound science into the risk assessment process.

As always, please feel free to contact me or the other members of your Council. While all the initiatives described above are highly consistent with our Strategic Plan, we would like very much to know your thoughts on them, and to learn of others you may wish to suggest. Your input is most important and always welcome.

Sincerely,



Steven D. Cohen  
1998-99 President



The *Society of Toxicology Communiqué* is published 5 times annually in Reston, Virginia, for members of the Society of Toxicology.

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Visit the SOT Home Page at <http://www.toxicology.org>

### Newsletter Editor:

A. Jay Gandolfi, Ph.D.

### Deadlines for

#### Upcoming Issues:

October 3, 1998 (Winter Issue)  
December 3, 1998 (Special Issue)  
April 3, 1999 (Spring Issue)

# The Role of Diet and Caloric Intake in Aging, Obesity, and Cancer

## Part of the "Contemporary Concepts in Toxicology" Series

The Society of Toxicology is hosting a symposium on the role of dietary and caloric intake in aging, obesity, degenerative diseases including cancer, diabetes mellitus and coronary heart disease as one of SOT's "Contemporary Concepts in Toxicology" Series. This symposium is being co-sponsored by the ILSI Risk Science Institute, the NCTR, the International Society of Regulatory Toxicology and Pharmacology and a number of pharmaceutical/industrial sponsors. **This 3-day meeting will be held at the Hyatt Regency Hotel, Reston, Virginia on October 26-28, 1998.**

This symposium is intended to promote the dissemination of scientific knowledge on the roles of dietary micro-and macronutrients and caloric intake in the pathogenesis and prevention of obesity and of the roles of these dietary factors and obesity in prevention of pathogenesis of several debilitating diseases of aging. The speakers of this conference will review evidence that restricting the caloric intake of sedentary laboratory rodents and non-human primates increases lifespan, reduces cancer and delays the onset of age-related physiological changes. They will discuss epidemiological and clinical data demonstrating the interrelationships between human caloric intake, obesity and health. Body weight regulation and the role of specific nutrients in health and disease will be addressed.

The current state of scientific understanding of the biological, biochemical and molecular processes responsible for relationships between obesity and disease and the phenomenon observed in animals and humans will be reviewed by a diverse faculty of internationally renowned scientific and clinical investigators. Active poster discussion sessions and presentation of posters are also planned. **The results of this symposium, its recommendations and the invited manuscripts of more than 20 speakers at this meeting will be published in the Journal "Toxicological Sciences."**

This conference will provide a forum for basic scientists, dietitians, toxicologists, pathologists, epidemiologists and clinical investigators to review and

discuss the key associations between diet and health or disease. Obesity is increasing world-wide and has become an epidemic in the United States. As much as 40% of the adult population in the United States are overweight with 75% of adults over 25 years of age exceed the current recommendations for body mass index (weight in Kg m divided by height squared in meters) compared to only 58% of the adults over 25 in 1983. Obesity is also increasing in children at an alarming rate with nearly 30% of the third grade students in the United States considered overweight and especially effected are minority children in poorly developed neighborhoods. Weight gain increases the risk of developing diabetes and hypertension. Coronary heart disease increases by 46% when the body mass index exceeds 23. While genetic and environmental factors play a role in the predisposition to obesity, the very high consumption of food rich in calories and fat coupled with an inactive lifestyle are considered major etiological factors underlying the diseases associated with obesity.

Dietary recommendations for the inclusion of greater amounts of fiber, antioxidants and vitamin-rich foods in the diet have been proposed as means for promoting good health along with the recognition that physical activity is an important component to a healthy lifestyle. Such recommendations have been drawn in large measure from a burgeoning scientific and medical literature linking the

observations in experimental animal studies with epidemiological and clinical studies of human disease. Animal toxicology and safety evaluation studies have shown that, in addition to exacerbation of spontaneous diseases (e.g., cancer, nephropathy, cardiovascular disease), caloric overfeeding and overnutrition can modulate the response to chemicals and pharmaceutical agents in toxicity and carcinogenicity studies. These adverse effects may seriously impact the human health risk assessment of pharmaceutical and industrial chemical agents derived from the animal toxicology data. In rodent and primate studies, caloric restriction, with appropriate nutrition, has been shown to reverse or delay the adverse health effects associated with obesity and accelerated aging in animals. In addition, certain

*Continued on page 16*

OCTOBER 26 - 28, 1998

Opening Keynote Speaker

**Dr. Bruce Ames**

University of California / Berkeley

on

*Diet and Aging*

Distinguished Key Speakers Include:

- Dr. Joann Manson, Harvard University School of Medicine
- Dr. Roy Walford, University of California
- Dr. Richard Weindruch, University of Wisconsin
- Dr. Walter Willett, Harvard University School of Public Health
- Dr. Gary Williams, American Health Foundation

Program Chair: Dr. Rakesh Dixit, Merck & Co., Inc.

HYATT REGENCY • RESTON, VA

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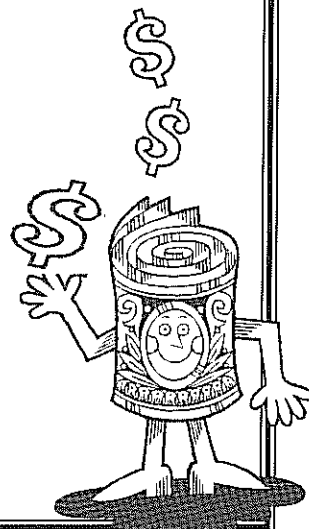
5th Director  
**Erik Dybing**  
National Institute of Public  
Health

## Funding Available for Non-SOT Meetings

Need additional funding for a toxicology-related meeting that isn't already sponsored by SOT? Then, just submit a request. SOT recently allocated funding to address such needs.

To apply, submit the request to SOT Headquarters. It will be forwarded to the related Specialty Section for endorsement. If approved, a Council subcommittee (**Mary Jo Vodcnik, Jacqueline Smith, and Robin Goldstein**) will review it before submitting the proposal to Council.

Don't delay! Funding is limited to \$2,000 per program with \$10,000 total available for these activities per year. Requests will be handled on a first-come, first-served basis.



## SOT Assists NIH in Identifying Members for Study Sections

For the first time, SOT has submitted a list of qualified scientists to the National Institutes of Health (NIH) to serve on its Alcohol and Toxicology Study Sections. In August 1997, SOT was invited to provide annually to NIH a list of SOT members who would be excellent candidates for membership. In response, Council asked each Specialty Section President to nominate up to two candidates. Each devised its own procedure for selecting nominees from the Section. Six names were submitted to Council, and after review at the May Council Meeting, the names were forwarded to NIH. There will be another call for nominations in 1999.

*SOT Information is Available to  
You Immediately!*

For Annual Meeting Information Packets and  
Membership Application Packets

- Registration Forms
- Flight Fax Forms
- Housing Request Forms
- Tour Registration Forms
- Program Overviews
- Membership Applications

Call SOT's  
FAX-On-Demand

**800-529-8635**

## NOMINATIONS SOUGHT

### Honorary Memberships

Do you know a non-member toxicologist who has achieved outstanding and sustained achievements in the field of toxicology? Perhaps you would like to nominate that individual for an Honorary membership in SOT. Honorary Membership nominations should include letters from two nominators who are full or associate members of the Society, as well as seconding letters and information regarding career achievements in toxicology. Election of Honorary members is by a two-thirds vote of Council and no more than two Honorary members may be elected during any one term of Council. Past Honorary members include: **Bernard B. Brody, John E. Casida, Gertrude B. Elion, Ronald W. Estabrook, George H. Hitchings, Charles Lieber, Norton Nelson, Sten Orrenius, Dennis Parke, Herbert Remmer, Roger Wolcott Russell, Wendall W. Weber, and Hyman J. Zimmerman.** Please submit nominations to SOT Headquarters by **October 1, 1998.**

### **Act Now!**

Please send nominations and accompanying documents to:

**SOT Headquarters**  
1767 Business Center Drive,  
Suite 302  
Reston, VA 20190-5332

**YOUR NOMINATIONS MUST BE  
RECEIVED  
BY OCTOBER 1, 1998.**

## Hotel Commissions Benefit SOT



For some SOT members, the arrival of the Annual Meeting Preliminary Information Packet is greatly anticipated because it contains more than a listing of the scientific sessions to be held at the Annual Meeting, the packet also contains hotel and travel information. These members know that the earlier they send in their housing request forms, the more likely they will get their first hotel choice. What members and non-members may not know, is when they stay at a hotel recommended by SOT, they are also helping SOT.

The Society provides a service to Annual Meeting attendees by reserving a block of rooms with a variety of room rates at several hotels that are usually located within walking distance of the convention center. The room rates are discounted off the hotels' "rack rates" or listed prices, and traditionally are lower than other group rates offered by the hotels.

Since the early 1990's, SOT has negotiated to receive the hotel commission once reserved for travel agents. Recently, some of the hotels have begun to add the commission on top of the discounted rates — while still keeping the rates below the "rack rates." SOT has chosen to continue to receive the commissions, using the credits to help offset Annual Meeting costs, and fund many long-range initiatives established by the membership.

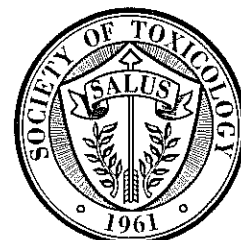
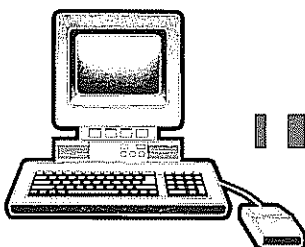
Over the years, the Society has come to depend on this important source of revenue. *Thank you for your continued support.*

## Try SOT's New Electronic Abstract Submission System

Escape the hassles of mailing your abstract submission! SOT members and non-members are invited to submit an abstract for presentation at the 1999 SOT Annual Meeting using SOT's new electronic abstract submission system. The system is designed for those who will be paying their abstract fees by credit card and who have access to the Internet. Submissions can be entered until **Midnight (Eastern time) on October 1, 1998**, giving you additional time to complete your abstract.

Access to the Abstract site can be achieved through the SOT Home page ([www.toxicology.org](http://www.toxicology.org)). Simply go to the Home page and select the Abstract Submission menu option. Click on the available link, and you will be directed to our new on-line system. Just follow the screen prompts and in minutes, your submission will be complete. You no longer need to leave the comfort of your home or office.

For those who still wish to submit their abstract via regular mail, please complete the Abstract Form in the SOT Preliminary Information Packet. This form should be mailed to the SOT address listed along with a diskette containing the abstract text, and your abstract submission fee. All manual submissions must be received by **5:00 p.m. on October 1, 1998.**



## Contemporary Concepts in Toxicology Proposal Deadline Approaching

SOT is accepting proposals for Contemporary Concepts in Toxicology meetings. These are focused, one to three day meetings sponsored by SOT. Proposal deadlines are September 1, 1998, and April 1, 1999.

Proposals must include:

- Proposed title of the meeting and brief description of the objectives and focus of the meeting.
- Composition of Organizing Committee.
- List of suggested topics and speakers and projected length of the meeting
- A tentative budget for speaker and Organizing Committee expenses (e.g. travel, honoraria, food and lodging).
- Suggested date and location(s).
- Intended audience.
- Draft text for promotional material.

Proposals must be approved by Council in advance of any financial commitment or dissemination regarding the proposed meeting. Individual members, Specialty Sections or Regional Chapters may sponsor meetings. Provisions may be made for co-sponsorship with non-SOT organizations; however, SOT Headquarters will make meeting arrangements. For more information or forms, visit the SOT Web site at <http://www.toxicology.org/cctguide.html>.

## The Burroughs Wellcome Fund Announces The 1999 Career Awards In The Biomedical Sciences

These awards are intended to foster the development of biomedical researchers who are early in their careers and to help them make the critical transition to becoming independent investigators. Awards provide support ranging from \$445,000 for four years to \$574,000 for six years to bridge advanced postdoctoral training and the first three years of faculty service. Recipients may spend part of the award period at institutions in the United Kingdom or the Republic of Ireland. **The application deadline for these awards is October 1, 1998.**

It is anticipated that at least 23 awards will be made. Approximately half of the awards will go to researchers with a Ph.D. degree in one of the biomedical sciences, and half will go to researchers with a M.D. or M.D.-Ph.D. degree. Candidates must be citizens or permanent residents of the United States or Canada at the time of application.

For more information contact **Rolly Simpson**, program associate, at (919) 991-5110 or send an e-mail message to [mailback@bwfund.org](mailto:mailback@bwfund.org) (type the word "menu" on the subject line for a list of programs) or visit BWF's Web site at <http://www.bwfund.org>.

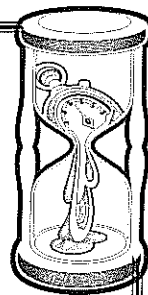
## Poster Discussion/Solicitation

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constitute viable Poster/Discussion sessions. The session should contain approximately 8-12 posters and consist of one hour of poster viewing time followed by two hours of author/ panel/ audience discussion. A poster/discussion proposal form is included in this newsletter. **This form must accompany the cluster of original abstract submissions and should be submitted by October 1, 1998, the Annual Meeting general abstract deadline.**

Although we hope to schedule each proposed poster discussion session, due to the potential numbers and facility limitations, it is possible that not all requests will be honored; however, submitted abstract clusters not accepted for Poster/Discussions will be considered independently by the Program Committee during the normal abstract review.

## Have Research That Will Be Completed After October 1?



A special session will be held on Thursday, March 18, 1999, for the presentation of 5-8 reports of significant and timely late-breaking research in toxicological sciences (i.e., in which the key research findings become available after the October 1, 1998, deadline for Annual Meeting abstracts). A subcommittee of the Program Committee will select the papers to be presented. Instructions for submission of abstracts to be considered for this special session will appear in the *Communiqué* Fall issue.

# How to Construct a Winning Abstract

It is never too early to begin thinking about your abstract for our 1999 Annual Meeting. By following these particular guidelines, developed by the Society's Program Committee, you will greatly enhance your abstract:

Abstracts describing the results of experimental studies must contain the following:

- a statement of rationale and scope of the study presented;
- a brief description of the experimental procedures;
- the data that resulted from the study; and
- principle conclusion(s) based on interpretation of the results.

Phrases such as "results/data will be discussed" convey no information as to the outcome of the studies and are unacceptable. For case studies that do not describe laboratory or field experiments, the following modifications are allowed:

- Instead of experimental procedures, the research or assessment approach should be briefly described.
- Instead of resultant data, the study's results or findings should be explicitly summarized.

Abstracts describing new initiatives or science policy in the regulatory community must clearly describe the impact on practice of toxicology and/or risk assessment. Abstracts must not contain tables, figures, or chemical structures.

As always, please take care to read *all* abstract submission guidelines and instructions listed in the SOT Preliminary Information booklet (now available through SOT Headquarters). In addition, make sure to prepare your abstract title using the instructions and samples provided. The Program Committee looks forward to receiving your submission.

## Call for Abstracts

*Continued from page 1*

The five-day program includes a continuing education program, a plenary lecture, and other special sessions, symposia, workshops, roundtable discussions, and platform and poster presentations.

The 1999 scientific session topics include:

### Symposia

- Biotechnology Products: Novel Compounds and Testing Strategies
- Metals and Disorders of Cell Accumulation: Modulation of Apoptosis and Cell Proliferation
- The Role of Quinones in Toxicology
- Fuel Oxygenates
- New Horizons in Antioxidant Biology
- The Role of DNA Repair in Maintenance of Genome Stability
- Chemical Modifiers of Response to Food-Borne Microbial Pathogens
- Endogenous Estrogens as Carcinogens: Metabolic Activation Through Oxidative Metabolism
- Drug Hypersensitivity: Mechanisms of Immune-Mediated Reactions
- Reactive Oxygen and Nitrogen Species: Cell Activation, Injury, and Apoptosis
- Mechanism of Action of Nicotine on Neuronal Acetylcholine Receptors: From Molecule to Behavior

- Mechanisms of Action of Naturally-Occurring Anticarcinogens
- Cell Cycle Check-Points and Chemical-Induced Stress Response: Survival Versus Death
- Xenobiotic Effects on Cell Adhesion Molecules and Extracellular Matrix Interactions
- Biomarkers in Molecular Epidemiology: Measures of Exposure and Risk for Cancer Development

### Workshops

- Telemetry, Toxicology and Safety Assessment
- Animal Models of Cardiopulmonary Disease: Impact of Air Pollution on At-Risk Populations
- Environmental Justice: Socioeconomic Inequities and Populations at Risk
- Cognitive Tests: Interpretation for Neurotoxicity?
- Carcinogenicity of Cigarette Smoke: Bridging the Gap Between Complex Mixtures and Individual Components
- Toxicology for Kids: A How-To Guide for Toxicologists
- The Immunotoxicology of Novel Therapeutics
- Validation of Toxicology Test Methods: Immunotoxicology Case Studies
- Endocrine Disruption and Neurotoxicity: Why Toxicologists Should be Concerned About the Actions of Estrogenic Chemicals in the CNS
- The Importance of Synthetic Mineral Fiber Biopersistence and *In Vitro* Solubility to Fiber Toxicity

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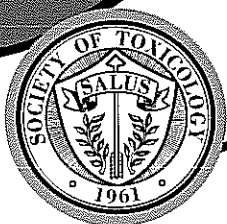


# 1999 SOT ANNUAL MEETING TENTATIVE PROGRAM OVERVIEW

All scientific sessions and exhibitions will be held at the Ernest N. Morial Convention Center.  
All specialty section functions and ancillary events will be held at a designated SOT hotel; refer to the SOT calendar on-site.

|  |                     |                    |
|--|---------------------|--------------------|
| Annual Business Meeting  | Tuesday, March 16   | 4:30 PM - 6:00 PM  |
| Burroughs Wellcome Toxicology Scholar Award Lectures   | Tuesday, March 16   | 8:00 AM - 8:30 AM  |
|  | Wednesday, March 17 | 8:00 AM - 8:30 AM  |
| Chapter Meetings   | Monday, March 15    | 7:00 PM - 8:00 PM  |
|  | Tuesday, March 16   | 7:00 PM - 8:00 PM  |
|  | Wednesday, March 17 | 7:00 PM - 8:00 PM  |
| Continuing Education Courses   | Sunday, March 14    | 7:00 AM - 8:00 AM  |
|  |                     | 8:00 AM - 12:00 PM |
|  |                     | 1:00 PM - 5:00 PM  |
| Exhibit Hall Complimentary Coffee  | Monday, March 15    | 9:30 AM - 10:30 AM |
|  | Tuesday, March 16   | 9:30 AM - 10:30 AM |
|  | Wednesday, March 17 | 9:30 AM - 10:30 AM |
| Exhibit Hall Brown Bag Lunches   | Monday, March 15    | 11:30 AM - 1:00 PM |
|  | Tuesday, March 16   | 11:30 AM - 1:00 PM |
|  | Wednesday, March 17 | 11:30 AM - 1:00 PM |
| Exhibit Hall Fairs   | Monday, March 15    | 9:30 AM - 4:30 PM  |
|  | Tuesday, March 16   | 9:30 AM - 4:30 PM  |
|  | Wednesday, March 17 | 9:30 AM - 4:30 PM  |
| Final Night Reception  | Thursday, March 18  | 6:00 PM - 8:00 PM  |
| Forum on Grantsmanship   | Tuesday, March 16   | 1:30 PM - 4:30 PM  |
| Graduate Student Luncheon  | Tuesday, March 16   | 12:00 PM - 1:00 PM |
| Graduate Student / Post-Doctoral Fellow Mixer  | Sunday, March 14    | 7:00 PM - 8:30 PM  |
| Issues Session   | Thursday, March 18  | 12:00 PM - 1:30 PM |
| Media Training Workshop  | Saturday, March 13  | 4:00 PM - 6:30 PM  |
| MRC Lecture  | Monday, March 15    | 12:00 PM - 1:15 PM |
| Placement Service Seminar  | Sunday, March 14    | 4:00 PM - 5:30 PM  |
| Plenary Session  | Monday, March 15    | 8:30 AM - 9:30 AM  |
| Poster Session for Visiting Students   | Monday, March 15    | 9:30 AM - 12:30 PM |
| Registration Desk  | Saturday, March 13  | 4:00 PM - 7:00 PM  |
|  | Sunday, March 14    | 7:00 AM - 5:00 PM  |
|  | Monday, March 15    | 7:00 AM - 5:00 PM  |
|  | Tuesday, March 16   | 8:00 AM - 4:00 PM  |
|  | Wednesday, March 17 | 8:00 AM - 4:00 PM  |
|  | Thursday, March 18  | 8:00 AM - 12:00 PM |
| SOT Awards Ceremony  | Thursday, March 18  | 5:00 PM - 6:00 PM  |
| SOT/EUROTOX Debate   | Tuesday, March 16   | 12:00 PM - 1:15 PM |
| Specialty Section Meetings/Receptions:   | Monday, March 15    | 6:00 PM - 7:00 PM  |
|  | Tuesday, March 16   | 6:00 PM - 7:00 PM  |
|  | Wednesday, March 17 | 6:00 PM - 7:00 PM  |
| Symposia, Workshops, Roundtable Discussions,<br>Platform Sessions, Poster Discussions, Poster Sessions | Monday, March 15    | 9:30 AM - 4:30 PM  |
|  | Tuesday, March 16   | 8:30 AM - 4:30 PM  |
|  | Wednesday, March 17 | 8:30 AM - 4:30 PM  |
|  | Thursday, March 18  | 8:30 AM - 4:30 PM  |
| Poster Sessions  | Monday, March 15    | 9:30 AM - 4:30 PM  |
|  | Tuesday, March 16   | 9:30 AM - 4:30 PM  |
|  | Wednesday, March 17 | 9:30 AM - 4:30 PM  |
|  | Thursday, March 18  | 8:30 AM - 4:30 PM  |
| Undergraduate Educational Program  | Sunday, March 14    | 9:00 AM - 5:00 PM  |
| Welcoming Reception  | Sunday, March 14    | 5:00 PM - 6:30 PM  |

## SOT Awards



## SOT Awards

### Nominations Sought

*(To date, few nominations have been received.)*

In recognition of distinguished toxicologists, SOT presents several awards each year. Award recipients are listed in the annual Membership Directory and are honored at a special Awards Ceremony at the SOT Annual Meeting.

#### Awards include:

- Public Communications Award
- Toxicology Education Award
- Achievement Award
- Arnold J. Lehman Award (Revised)
- Merit Award
- Board of Publications Awards for Best Paper in *Toxicology and Applied Pharmacology*, the Best Paper in the *Fundamental and Applied Toxicology* and the Best Paper in *Toxicological Sciences*

Each nomination must be submitted by a sponsor and a seconder who are members of SOT. The quality of supporting documentation is critical in the review of the nomination of each candidate.

Please send all nominations and supporting documentation to:

Awards Committee Chairperson  
 Dr. Michael McClain  
 SOT Headquarters  
 1767 Business Center Drive,  
 Suite 302  
 Reston, VA 20190-5332

**Deadline for receipt of nominations for 1999 Awards is October 1, 1998.**

### Arnold J. Lehman Award

The Awards Committee is seeking applicants for the prestigious Arnold J. Lehman Award. The Arnold J. Lehman Award is presented by the Society of Toxicology to recognize an individual who has made a major contribution to the control of chemical agents, including pharmaceuticals. The contribution may have resulted from the application of sound scientific principles to regulation and/or from research activities that have had a significant influence upon the regulatory process. The nominee may be employed in academia, government, or industry and must be a member of the Society. The award consists of a plaque and a cash stipend. Nominations, along with a CV, supporting documentation, and other relevant data for the Awards are to be submitted, in writing, to **Michael McClain**, Chairperson, Awards Committee, c/o SOT Headquarters. The deadline for this award is **October 1, 1998**.

### Colgate-Palmolive Visiting Professorship

The Colgate-Palmolive Company sponsors this visiting professorship award through the Society of Toxicology for the study of *in vitro* toxicology. Awards will be granted to institutions that select an individual scholar to disseminate knowledge regarding research, development and/or use of science that contributes to the replacement, reduction or refinement of currently used animal models in research and testing.

Up to four awards will be granted in a single calendar year. Award recipients will be chosen by the SOT Education Committee, together with a representative from the Colgate-Palmolive Company.

Applications, consisting of a letter of request from the host institution, a detailed proposed agenda, budget (not to exceed \$10,000 with at least \$2,000 to be used for an honorarium), and a selected bibliography of the visiting scholar, should be sent to the SOT Awards Committee at the SOT Headquarters office by **October 1, 1998**. A more detailed award description is available on the SOT Web site at [www.toxicology.org](http://www.toxicology.org) or upon request from SOT Headquarters. Awardees will be announced at the SOT Annual Meeting and in the SOT *Communiqué*.

### Public Communications Award

The Awards Committee is seeking applicants for the Public Communications Award. This award is presented by the Society of Toxicology to recognize an individual who has made a major contribution to broadening the awareness of the general public on toxicological issues through any aspect of public communications. The award should reflect accomplishments made over a significant period of time. Examples of qualifying media in which the nominated communication may appear are: books, brochures, continuing education courses, databases, extension bulletins, magazines, newspapers (local or national), public presentations, public forums, radio and television scripts, and workshops. The award consists of a plaque and a cash stipend. **This award was not granted last year due to lack of applicants.**

### Zeneca Traveling Lectureship Award

The Zeneca Traveling Lectureships are presented by the Society of Toxicology in recognition of excellence in research and service in toxicology. Zeneca provides two awards annually to promote greater collaboration between European and North American toxicologists. These awards are intended to enable North American toxicologists to undertake a three- to four-week lecture tour of Europe, familiarize themselves with scientific issues in Europe, as well as to bring a North American perspective to European scientists.

# AWARDS

Candidates for these awards should be established, mid-career North American scientists who are members of the Society of Toxicology and who demonstrate the ability to develop collaborative relationships with European colleagues.

Application must include a statement of the applicant's experience and area of expertise. A proposed itinerary and its underlying rationale should be provided, along with an indication of the benefits that the lectureship will confer on the applicant. The itinerary must include a visit and lecture at Zeneca's Alderley Park Facility in Cheshire, England. Candidates should contact the itinerary hosts prior to submission of the application. The application should not exceed 1,500 words.

The following format is suggested for the application:

1. Name and affiliation.
2. Statement of experience and expertise.
3. Proposed lecture itinerary.
4. Rationale for itinerary.
5. Statement of benefits to the applicant.
6. Curriculum vitae.

The Society of Toxicology Awards Committee, chaired by **Michael McClain**, will select recipients for the Zeneca Traveling Lectureships. The awardees will be named at the SOT 1999 Annual Meeting. Applications must be received at SOT Headquarters by **October 1, 1998**.

## SOT Student Awards

Information and applications for these Student Awards are available at the SOT Web site (<http://www.toxicology.org/spon.html>)

### Colgate-Palmolive Post-Doctoral Fellowship Award in *In Vitro* Toxicology

The Colgate-Palmolive Company sponsors this Post-Doctoral Fellowship Award through the Society of Toxicology, directed specifically toward the study of *in vitro* toxicology and any other alternative to animal testing. Subjects that could be included are dermal, ocular, mutagenesis, molecular biology, cell culture, or metabolism. Any post-doctoral trainees in their first year of study beyond the Ph.D., M.D., or D.V.M. degree who are employed by academic institutes worldwide may apply.

The post-doctoral advisor must be a member of SOT. This two-year \$67,000 award includes an annual stipend of \$22,000 and funds that may be used for supplies, equipment or research-related travel. The application deadline is **October 1, 1998**. The award will be presented at the SOT Annual Meeting in New Orleans, with funding to begin at that time or anytime prior to September 1, 1999. Application materials can be obtained from SOT Headquarters.

### Graduate Student Fellowship Awards

The Education Committee of the Society of Toxicology announces the availability of Graduate Student Fellowship Awards in Toxicology. The 1999 Awards are sponsored by Novartis Corporation (formerly known as CIBA-GEIGY) and The Procter & Gamble Company. Fellowship Awards are for one year and are administered by the awardee's academic department.

Any graduate student with at least two years of graduate study toward a Ph.D. degree in any area of toxicology, and whose major professor is a member of the Society of Toxicology, may apply.

Evaluation by the Education Committee is based primarily on:

- Originality of the dissertation research
- Research productivity
- Relevance to toxicology
- Scholastic achievement
- Letters of recommendation

Applications are due by **October 1, 1998**. Finalists will be invited to attend the SOT 1999 Annual Meeting for an interview. The winners of these awards will be announced at the Annual Meeting. These are prestigious awards of \$16,000 each. Applications are easy to complete and are available on the SOT Web site at [www.toxicology.org](http://www.toxicology.org) or from the SOT Headquarters office.

### Graduate Student Travel Grants

The Society of Toxicology's Student Travel Grants, administered by the Education Committee, help defray travel expenses for students attending the 1999 SOT Annual Meeting. To be eligible for funding, students must be an SOT member (or an applicant for student membership); must be presenting an abstract at the SOT Annual Meeting; and must not have been previously selected for this award.

A fully completed application, along with a copy of the SOT abstract being presented at the Annual Meeting, must be submitted to SOT Headquarters by **October 1, 1998**.

Applications for Graduate Student Travel Grants were mailed to all SOT student members in August. Non-members may request an application by calling the SOT Information Line at (508) 230-2015 or from the Web site at [www.toxicology.org](http://www.toxicology.org).

### Specialty Section Student Awards

Most SOT Specialty Sections offer awards to graduate students who present research papers at the SOT Annual Meeting. Although requirements vary among the Specialty Sections, an abstract of research to be presented at the Annual Meeting is required by all. A list of the Student Specialty Section Awards and application requirements is located on page 17 of the Annual Meeting Preliminary Information Packet, which was mailed to members in July.

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# Interest in Environment—Human Health Interactions is on the Rise

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Written by *Emily Monosson*, *Monosson Environmental Research* with contributions from *Richard T. Di Giulio*, *Duke University*.

Society for Environmental Toxicology and Chemistry (SETAC) has recently identified "environmental-human health interactions" as one of the issues important to its long-range planning committee. The topic of interconnections between human health and ecosystem function is gaining momentum at several different levels in this country and others, as demonstrated by societies with roots based in human health (Society of Toxicology-SOT), ecology (Ecological Society of America-ESA), economics (Interdisciplinary Environmental Association-IEA), and literature (Nature Writers Society), in addition to international bodies such as the Scientific Committee on Problems of the Environment (SCOPE).

This topic covers fundamental relationships between human health and ecosystem function. The assumption of interconnections between

human health and ecosystem function is a given; it is intuitive and significant (DiGiulio & Monosson, 1996). **Jane Lubchenco**, past president of the American Association for the Advancement of Science (AAAS), focused her presidential address on the "realization of the intimate connections between these [ecological systems] and human health: the economy, social justice, and national security," noting that "human well-being and prosperity depend upon diverse functioning of ecological systems in ways that we are only beginning to appreciate" (Lubchenco, 1998). Some of the most commonly considered relationships are the direct effects of degraded ecosystems on human health, and the direct effects of human activity on ecosystems. Investigation of the subtler and often indirect interrelationships, which can require highly interdisciplinary collaboration, is a more

neglected yet very important topic. As **John Cairns** (1996) noted: "Too much emphasis on specialization decreases interactions with other disciplines, which in turn diminishes any effectiveness in coping with problems that transcend the capabilities of a single discipline." In addition, addressing these relationships will require more than integration among just the natural sciences. In the words of **E.O. Wilson** (1998): "There is ample practical reason—should no other kind prove pervasive—to aim for an explanatory integration not just of the natural sciences but also of the social sciences and humanities, in order to cope with issues of urgency and complexity that may otherwise be too great to manage."

Topics that address both the direct and indirect relationships between humans and the earth's

*Continued on page 15*

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## Call for Abstracts

*Continued from page 8*

### Roundtables

- Common Mechanism of Toxicity: Principles and Case Studies Using Insecticides
- A Partnership Approach to the Evaluation of Alternative Models for Carcinogenicity Testing
- Innovations in Applied Toxicology
- Genomic Technologies and New Screening Strategies for Toxicology
- Innovations in Toxicological Sciences
- Cytokines: Biology, Gene Regulation and Role in the Pathogenesis of Lung Disease
- Regulation of Gene Expression via the Electrophile Response Element

### Issues Session

- An Additional Ten-Fold Safety Factor for Children: Is This Needed?

### SOT/EUROTOX Debate

- The Results of Mechanistic Toxicity Studies Should Supersede Limited Epidemiological Data

The meeting will offer continuing education courses on Sunday, March 14, 1999. Both basic and advanced courses will be offered and include:

- Basic Bioinformatics: From Sequence Analysis to Genome Analysis
- Evaluation of Male Reproductive Toxicity: Sperm Markers and Epididymal Mechanisms of Toxicity
- Application of Transgenic Models in Toxicology
- Gene Regulation by Reactive Oxygen Species
- *In Vitro* Methods for Evaluating Biokinetic Parameters for Risk Assessment
- Advanced Metal Toxicology
- Chemical Hypersensitivity
- Techniques for Detection and Quantification of Apoptosis
- Genomic Technologies and New Screening Strategies for Toxicology

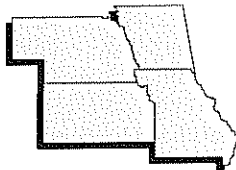
- Gene Targeting/Null Models in Toxicology
- The Practice of Structure Activity Relationships (SAR) in Toxicology
- Target Organ Toxicology: Respiratory Tract Dosimetry and Response to Inhaled Toxicants
- The EDSTAC Tier 1 Screening Battery: Objectives and Recommended Assays
- Basics of Ecological Risk Assessment

Attendees will want to make plans to stay for the Awards Ceremony and Final Night Reception, two popular events which are scheduled for Thursday night.

Abstract presentation remains the cornerstone of the SOT Annual Meeting. **Abstract submissions are due October 1, 1998.** Abstracts of the SOT Annual Meeting are published as a special edition of *Toxicological Sciences* and are cited in online database services.

## CENTRAL STATES REGIONAL CHAPTER NEWS

The Central States Chapter of the Society of Toxicology held its Annual Meeting at the University of Nebraska Medical Center (UNMC), College of Pharmacy in Omaha, NE, on June 5, 1998. Following a welcome by **William Berndt**, Chancellor of UNMC, and **Jim Bus**, Past President of SOT, Dow Chemical Company, Toxicology Research Laboratory, addressed the thrust of SOT in their program Toxicology 2000. The chapter expressed interest in helping integrate graduate students into the national meeting, extending their initiation to toxicol-



ogy meetings at the regional chapter meeting. In addition, there were questions regarding the next step for integration of the regional chapters, how best to contact congressmen, and helping the SOT program for toxicology education of kindergarten through grade 12.

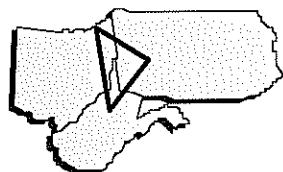
Our scientific posters generated numerous discussions and a vigorous contest for the regional chapter's Young Investigator Award, given to **C. Yusuf** and her mentor **P. Murphy** at Food Science and Human Nutrition, Iowa State University. Ms. Yusuf's title was "Isolation, Purification and Antioxidant Activity of Lycopene and Its Oxygenated Products, Lycopene 5,6-Diol and

Lycopene 5,6-Epoxyde." This year's John Doull Award for Career Achievement in Toxicology was given to **Curtis D. Klaassen**.

We congratulate our hosts at UNMC on a hospitable and educational meeting, and we welcome our new slate of officers: **Darren Warren**, Bayer/Animal Health, Merriam, KS, President; **George Casale**, UNMC, College of Pharmacy, Omaha, President-Elect (Vice President); **B. Rich Dudek**, Monsanto Safety Evaluation, St. Louis, MO, Secretary/Treasurer; and **Patrick Iversen**, Antivirals Inc., and **Paul Stemmer**, UNMC, Pediatrics, Omaha, Councilors.

## ALLEGHENY-ERIE REGIONAL CHAPTER NEWS

On May 15, 1998, the Allegheny-Erie Regional Chapter of the Society of



Toxicology (A-E SOT) welcomed 18 science teachers to their first teachers workshop at Duquesne University, Pittsburgh, PA. The teachers workshop, "Paracelsus Goes To School," was an initiative that originated with A-E SOT President-Elect **Anna Shvedova** (NIOSH, Morgantown, WV) and President **James Barter** (PPG Industries, Inc., Pittsburgh, PA) during the SOT Annual Meeting in Seattle, WA. The workshop was made possible through a grant funded by SOT.

Shvedova opened the workshop by welcoming the teachers and presenting the mission and major goals of the Society of Toxicology. She then introduced the following speakers for the morning session: **Albert Munson**, Director of NIOSH in Morgantown WV, who gave a "General View of Toxicology"; **Vincent Castranova**, Chief of Pathology and Physiology at NIOSH, who spoke on "Toxicol-

ogy and the Government Prospective"; A-E SOT President **James Barter**, who discussed "Toxicology and the Industrial Prospective"; and **John Benitez**, Director of Toxicology at the University of Pittsburgh Medical Center, who explained the "Toxicology and Public Health" viewpoint. One of the teachers, **Pat Bordell** of Penn Hills High School, Pittsburgh, PA, described the Toxicology and Forensic Science curriculum that she has established for her students.

After the morning session, mentors introduced the teachers to other A-E SOT members, committee members, and officers, who explained the various posters that were on display. The Animals in Research Committee, chaired by **Roy Myers**, coordinated discussions and provided handouts and video demonstrations. Each teacher received a laminated "Certificate of Attendance."

Because this was the tenth anniversary of A-ESOT, during the annual business meeting, member **John Butala** explored the history archives to describe the transition of the Pittsburgh Toxicology Club into

the Allegheny-Erie Regional Chapter of the Society of Toxicology. At this time, all Past Presidents were honored with special certificates. Past Presidents in attendance were: **Fred Fochtman** (1988), **Mary E. Davis** (1991), **Ed Kennah** (1992), **Roy Myers** (1994), **Frances Lucas** (1995), and **Vince Castranova** (1996). Past Presidents not in attendance were: **Craig Barrow** (1989), **Michelle Schaper** (1990), and **Mary Connor** (1993). All members and guests attending the meeting received laminated certificates celebrating the tenth anniversary.

At the business meeting, Committee Chairs presented their annual reports, and outgoing officers received "Certificates of Appreciation." Outgoing President **James A. Barter** introduced the new President, **Anna Shvedova**. President Shvedova presented Barter with an engraved gavel for his notable work as A-E SOT President during the past year. Shvedova proceeded to read a congratulatory letter from SOT President **Steven Cohen**, who was unable to participate in the tenth anniversary

*Continued on page 14*

## IN MEMORIAM

### Mary O. Amdur, Ph.D.

Submitted by *Daniel Costa, Sc.D.*

Last February, we endured the passing of Mary O. Amdur, Ph.D., one of the great women of toxicology. Dr. Amdur (Mary as she preferred to be called) pioneered the study of gaseous and particulate air pollutant interactions and their impacts on pulmonary health. With so much emphasis now on the health effects of ambient particulate matter (PM) and the likely importance of its physical and chemical composition and interaction with copollutant gases, her work was clearly prophetic to the "discoveries" of today's investigators. Mary began her studies of air pollution long before Rachael Carson conceived of Silent Spring; indeed she was a friend of Harriet Hardy, the matriarch of industrial hygiene. After receiving her B.S. in Chemistry from the University of Pittsburgh in 1943 and her Ph.D. in Biochemistry in 1946 from Cornell ("Role of Manganese and

Choline in Bone Formation in the Rat"), she moved to the Massachusetts Eye and Ear Infirmary in Boston with her husband Ben. She soon relocated "up the road" at the Harvard School of Public Health where she initiated her earliest investigations of the irritancy of sulfur dioxide in humans with Professors Cecil and Phillip Drinker (inventors of the "iron lung"), and Drs. James Whittenberger and Jere Mead (prominent lung physiologists). The air pollution disasters of the Meuse Valley (1936), Donora, PA (1948), and London (1952) intrigued Mary because the reported health impacts exceeded those that might be predicted from the "smog" levels of sulfur dioxide and irritant gases alone. The concept that mixtures of water-soluble irritant gases and catalytic metals may interact to create an aerosol of potentiated irritancy launched her 46+ year career of study of the health effects and mechanisms of coexistent air pollution gases and various metal particles.

During the 1950's, her work was not appreciated by many of her professional contemporaries. Industries burning coal and oil were distressed that her findings would ultimately affect their "bottom-line" in air emission clean-up, and some of her colleagues were less than thrilled by the potentially negative

financial impact of her work on the University. This sentiment was an additional burden for her as a woman in what at the time was clearly a male arena. She found herself alone to outwit, in almost "cloak and dagger" style, strong-armed representatives of the metal smelter and coal industries who trailed her to and during national meetings where she reported her work. Fortunately, her personal and scientific perseverance prevailed; her work flourished throughout the next three decades with the growing public interest in clean air. Her strident efforts to pursue her research goals carried her from Harvard, to MIT, and ultimately to NYU at the Nelson Institute for Environmental Medicine where the conceptual foundation of her research continues. In addition to her considerable published scientific efforts, Mary also was a co-editor of the classic text of toxicology, **Casarett and Doull's Toxicology: The Basic Science of Poisons**. Her awards were many, including: the 1974 Donald E. Cummings Memorial Award from American Industrial Hygiene Association, the 1984 Henry F. Smyth Award from the American Academy of Industrial Hygiene, the 1986 Career Achievement Award from Inhalation Section Society of Toxicology, the 1988

*Continued on page 16*

### *In Memoriam*

Beth Hoskins

Herbert E. Stokinger

Wilfred N. Aldridge

## Allegheny-Erie Regional Chapter News

*Continued from page 13*

celebration. After the business meeting, A-E SOT members, guests, and teachers attended the afternoon symposium, "Women's Health Issues: The Importance of Gender Considerations to Toxicologic Studies." Speakers and topics for this scientific session were: **Roberta Ness**, University of Pittsburgh, "How Epidemiology Cracks the Mystery of Gender Differences;" **James S. Kesner**, NIOSH, Cincinnati, OH, "Evaluation the Effects of Occupational Hazards on the Reproductive Health of Women;" **John G. Benitez**, MPH, University of Pittsburgh Medical and **Ilise Feitshans**, Adjunct Professor, Cornell

University, Ithaca, NY, "Women's Rights to Health: International Law and the U.S." Ninety-three members and guests attended the symposium.

The two annual poster awards were announced after dinner. The Best Overall Award went to **Andrea J. Wiethoff** and **William E. Brown** of Carnegie Mellon University, Pittsburgh, PA, for their poster, "Magnetic Resonance Imaging (MRI) and Biochemical Analysis of the Nasal Passages of Mice Exposed to 3-Methylindole." The award for Best Methodology was presented to **Dale Porter**, **Xianglin Shi**, **Stephen S. Leonard**,

**Val Vallyathan**, and **Vincent Sastranova** of HELD, NIOSH, Morgantown, WV, for their poster, "Efficacy of Taurine and Hypotaurine As Hydroxyl Radical Scavengers."

An exciting and thought-provoking talk was given by the after-dinner keynote speaker, **John J. Mullvihill**, from the Genetics Department of the Graduate School of Public Health, University of Pittsburgh. Mullvihill's topic was "Gene Testing, Cloning and Therapy: Tinkering with God's Plan."

## ANIMALS IN RESEARCH

The Society of Toxicology believes that there is a continuing need to use animals in modern toxicology research and testing, and that investigators using animals have a serious obligation to use animals responsibly. The mission of the Committee on Animals in Research is to foster within SOT the responsibility to ensure that animals are used humanely and intelligently; to endorse the use of alternatives to animals when applicable; and to support the concepts of reduction, refinement, and replacement. The Society of Toxicology strongly encourages its members to adhere to the proper use, care, and transport of animals in all aspects of their involvement in the science of toxicology.

Of the several charges given to the Committee, a number are underway and should be available for review by the general membership in the fall of 1998. These include an updated Society of Toxicology policy statement regarding the use of animals in research and a revised version of the brochure, "The Importance of Animals in the Science of Toxicology." The Committee is preparing public policy position statements

affirming the importance of animal research and testing in toxicology and supporting the development of alternative methods that allow for the replacement of, reduction in, and refinement in the use of animals. Such approaches will further enhance our understanding of the mechanisms and modes underlying the overt signs inherent in the disease process.

As one of its long-term goals, the Committee is evaluating the need for education material stressing the importance and benefits of using animals in toxicology studies. The Education Committee, particularly the K-12 Subcommittee, and the Toxicology Education Foundation will play an integral role in this planning phase. The Committee is also evaluating various external organizations that might work with SOT to develop the Committee's mission.

Overall, the Committee has enthusiastically accepted President Cohen's charge to become more proactive and to develop the necessary programs to support the position of the Society of Toxicology as it relates to animals.

## Interest in Environment—Human Health Interactions is on the Rise

*Continued from page 12*

ecosystems include: questions of food chain transfer of environmental contaminants; shared effects between humans and other inhabitants of impacted ecosystems; the assimilative capacity of ecosystems (or the ability of ecosystems to serve as a buffer); and social and psychological issues associated with populations exposed to contaminants in their environment (e.g., environmental justice issues, and populations exposed to contaminants via "man-made" disasters). Consideration of these relationships when developing environmental risk assessment and risk management strategies may help preserve and perhaps even enhance ecosystem integrity and human health. The next step is to develop this newly emerging interdisciplinary issue and perhaps tie together and learn from various other fields already active in linking human health with the functioning of the earth's ecosystems.

At the 18th Annual SETAC Meeting in San Francisco, an ad-hoc committee met to more formally address this long-term issue of "environmental-human health interactions." The preliminary goals of this meeting were to (1) define the issue, and (2) address how to best approach the issue. As many familiar with this topic know, there is an ongoing debate as to the best terminology used to describe this topic. While there are few problems with the term "human health," the remainder of this issue's title has drawn considerable discussion. (This topic was addressed by several platforms sessions at the meeting in

San Francisco, and by Lackey in 1994.) Suggestions have included "ecosystem function," "environmental integrity," and "ecosystem health." We tentatively will refer to this issue as "interconnections between human and ecosystem health." This title is open to comment and change (see below).

The debate on terminology leads to the more significant portion of the committee's discussion, "What are the important 'interconnections between human health and ecosystem function?'" Interactions occur on many different levels, as studied by biologists, chemists, ecologists, toxicologists, and environmental scientists. Social scientists, economists, and psychologists study the impacts of these interactions. The information generated by these various sciences is useful to risk assessors, managers, and policy makers. It is clear that there is interdependence; however, there is often little cross-talk among these various disciplines. Many pursue their goals in parallel. This is likely due in part to inertia and to the lack of recognition by many establishments, including universities and funding agencies, of the importance of such multidisciplinary work.

SETAC's commitment to this issue is demonstrated by theme, "The Natural Connection: Environmental Integrity and Human Health," selected for the 19th Annual meeting in Charlotte, North Carolina. This theme

*Continued on page 17*

# TOXICOLOGY EDUCATION FOUNDATION NEWS

## 1998-1999 OFFICERS

The Board of Trustees is pleased to announce the election of the following officers for 1998-1999: **A. Wallace Hayes**, President; **David L. Eaton**, Vice President; and **Harihara M. Mehendale**, Secretary-Treasurer. Other members include **James S. Bus**, **Mary E. Davis**, **John Doull**, **Marion F. Ehrich**, **Mike McClain**, **Emil Pfitzer**, **Claude McGowan**, Education Committee Liaison, **David Williams**, K-12 Subcommittee Liaison, and **Charlene McQueen**, Ad-Hoc Member.

## 1997-1998 SUPPORTERS

The mission of the Foundation is to provide educational programs to enhance public understanding of toxicology. Income generated by the Foundation is used for programs to fulfill this mission. The trustees will gratefully recognize the TEF supporters who made contributions in 1997-1998 with an acknowledgement in the Fall issue of the *Communiqué*.

## In Memoriam: Mary O. Amdur

*Continued from page 14*

Ambassador Award from the Mid-Atlantic Section Society of Toxicology, the 1989 Herbert E. Stockinger Award from the American Conference of Governmental Industrial Hygienists, and the 1997 Merit Award from the Society of Toxicology.

For those of us fortunate to have known or worked with Mary, her personal attributes paralleled her scientific prowess. She was fair and honest with strong convictions, and possessed a wry wit and demeanor; yet she was infinitely compassionate to students and their plights. Her directness and insightfulness were refreshing to all, and she was an exquisite writer and editor. But her Easter-season hot-cross buns and likewise her ginger cookies at Halloween were much more appreciated by her classes than any lecture outline. Mary was very much a modern-day Renaissance person. She was classically literate and loved everything French. During her retirement years, while not editing or reviewing, she traveled around the world exploring and studying regional flora and tending to her gardens and greenhouse. Unquestionably, she will be remembered for her impact on air pollution regulation and inhalation toxicology, but for those who shared time and space with her, she will be remembered most for her intellectual enthusiasm, her nurturing of good science, and her caring. She will truly be missed.

## The Role of Diet and Caloric Intake in Aging, Obesity, and Cancer

*Continued from page 4*

chemicals and nutrients present in our diet, including fruits and vegetables, have been shown to inhibit chemical carcinogenesis in experimental animals and appear to reduce or prevent the risks of certain cancers in humans.

This three-day symposium will begin with a review of experimental studies of the role of diet and caloric intake in aging and diseases of laboratory animals and the extrapolation of these data to human beings. Speakers on the first day of the symposium will focus on underlying mechanisms from the molecular to the epidemiological level. The symposium will open with a keynote speech from **Bruce Ames** of UC, Berkeley on diet and aging. It will be followed by a series of reviews from academic, government and industrial scientists examining the role of dietary nutrients and caloric intake in aging and disease processes of various experimental rodent and primates models.

The speakers on the second day of the symposium will review the role of diet and obesity in human diseases and consider the epidemiological studies that have established an association between excessive food intake, physical inactivity and adverse outcomes. Mechanistic studies will be reviewed to provide insight into preventive strategies to control these diseases.

The speakers on the third day of the symposium will focus on the role of nutrition in cancer prevention, with particular emphasis on a number of natural products that act as antioxidants, antiproliferators or otherwise modulate the rate of occurrence of cancer. The speakers in this session will also discuss mechanisms underlying these observations and the current efficacy and potential toxicity of diet and chemo-

preventive agents in human carcinogenesis. The conference will conclude with a panel discussion of the epidemiological and public health implications of the information presented at the conference. Among the issues to be considered are the interrelationships between the findings of studies conducted in experimental animals and those conducted in humans, emphasizing informational gaps that limit scientific understanding and identifying where specific research is needed to fill such gaps.

For more information about this important conference, including poster abstract submissions and registration materials, contact the Society of Toxicology, 1767 Business Center Drive, Suite 302, Reston, VA 20190-5332 or phone (703) 438-3115 or fax (703) 438-3113. Visit the Society of Toxicology Web site at [www.toxicology.org/dietobesity.html](http://www.toxicology.org/dietobesity.html).

### ORGANIZING COMMITTEE

**Rakesh Dixit**, Program Chair, Merck Research Laboratories  
**Kevin Keenan**, Merck Research Laboratories  
**Adrienne Rogers**, Boston University School of Medicine  
**Ronald Hart**, FDA, NCTR  
**David Neumann**, ILSI Risk Science Institute  
**John Keller**, Tox., Litigation, Regulatory, Environmental Sciences  
**Sam Kacew**, University of Ottawa, Canada  
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### SOCIETY OF TOXICOLOGY STAFF

**Deborah Hyman**, Society of Toxicology  
**Clarissa Russell Wilson**, Society of Toxicology



*The Continuing Education Committee thanks all of the students  
whose efforts helped to make the 1998 SOT CE Courses such a success!*

| <u>Name</u>        | <u>Affiliation</u>                                  |
|--------------------|---|
| Chessley Atchison  | University of Texas Medical Branch, Galveston, TX   |
| Charles Barton     | Louisiana Institute of Toxicology (NLU), Monroe, LA |
| Pedro del Valle    | University of Maryland, Baltimore, MD               |
| Caren Ebbert       | Oregon State University, Corvallis, OR              |
| Barbara Faubert    | Michigan State University, East Lansing, MI         |
| Mark Fielden       | Michigan State University, East Lansing, MI         |
| Jeanette Gomez     | University of Pittsburgh, Pittsburgh, PA            |
| Benjamin Hayes     | NIOSH, Morgantown, WV                               |
| Amy Herring        | Michigan State University, East Lansing, MI         |
| Arati Kamath       | Virginia Polytechnical Institute, Worcester, MA     |
| Craig Llewellyn    | Medical College of Virginia (VCU), Richmond, VA     |
| Scott Manetz       | NIOSH, Morgantown, WV                               |
| Rebecca Marcus     | Michigan State University, East Lansing, MI         |
| Jason Matthews     | Michigan State University, East Lansing, MI         |
| Andrew McDougall   | Texas A&M University, College Station, TX           |
| Ryan Morgan        | San Diego State University, San Diego, CA           |
| Shasi Ramiah       | Louisiana Institute of Toxicology (NLU), Monroe, LA |
| Deepa Rao          | University of Oklahoma, Oklahoma City, OK           |
| John Robertson     | University of Texas, Austin, TX                     |
| Vicente Santacruz  | University of Texas Medical Branch, Galveston, TX   |
| Courtney Sulentic  | Michigan State University, East Lansing, MI         |
| Tanya Ushiro       | San Diego State University, San Diego, CA           |
| Maria Wang         | Louisiana Institute of Toxicology (NLU), Monroe, LA |
| Michael Woolheiser | HELD/NIOSH, Morgantown, WV                          |

## Interest in Environment—Human Health Interactions is on the Rise

*Continued from page 15*

will be highlighted by both the plenary session and other symposia. SETAC is also sponsoring a QSAR workshop in May, which will include sessions on QSARS for predicting environment/human health interactions. In addition, SETAC may organize a Pellston Conference on this topic in the near future.

We believe that the definition should be kept as open-minded and as broad as possible. This means incorporating ideas from members of SETAC, SOT, ESA, and the American Chemical Society (ACS), in addition to members of more recently formed societies with roots in this concept, such as the International Society for Ecosystem Health and the Interdisciplinary Environmental Association. Providing definition for and sub-

stance to this topic that is both acceptable across disciplines and which will help gain its recognition as a necessary and important addition to future work is an important goal that requires innovative thinking. Interested members may contribute thoughts or ideas on this topic via e-mail to Emily Monosson at [Emonosson@forwild.umass.edu](mailto:Emonosson@forwild.umass.edu)

### References

- Cairns J., Jr. (1996). Interfacing product life cycles and ecological assimilative capacity, in *Interconnections Between Human and Ecosystem Health*, eds R.T. Di Giulio and E. Monosson, Chapman and Hall Publishing, London.
- Di Giulio, R. T., and Monosson, E. (1996). Interconnections between human and ecosystem health: opening lines of communication, in *Interconnections Between Human and Ecosystem Health*, eds R.T. Di Giulio and E. Monosson, Chapman and Hall Publishing, London.
- Lackey, R. T. (1994). Ecological risk assessment. *Fisheries*, 19:14-18.
- Lubchenco, J. (1998). Entering the century of the environment: A new social contract for science. *Science*, 279:491-495.
- Wilson, E. O. (1998). Integrated science and the coming century of the environment. *Science*, 279:2048-2049.



# UPCOMING CONFERENCES

- 1998 North American Congress of Clinical Toxicology, September 10-15, 1998, Hilton at Wall Disney World Village, Orlando, FL. Sponsored by the American Academy of Clinical Toxicology. Contact: Contemporary Forums, Ph: (510) 828-7100, Ext. 0.
- 10th International Workshop on *In Vitro* Toxicology, September 14-18, 1998, The Wessex Conference Centre, Sparsholt, Winchester, UK. Contact: Caroline Sumner, INVITOX 98 Secretariat, Meetings Management, The Chestnuts, 1st Floor, 18 East Street, Farnham, Surrey GU9 7SD, UK, Ph: 44-1252-726066, Fax: 44-1252-723303, E-mail: jherriot@meetingsmgt-n-net.com.
- Asian Conference on Food Safety and Nutrition, September 14-17, 1998, Beijing, China. Contact: Ms. Guan Yucong, Ph: 86-10-6317-0892, Fax: 86-10-6317-0892.
- The Fourth International Symposium and Exhibition on Environmental Contamination in Central & Eastern Europe (Warsaw 98), September 15-17, 1998, Warsaw, Poland. Contact: Dr. Roy C. Hendon, Director and Symposium Chair, Institute for Central & Eastern European Cooperative Environmental Research, Florida State University, 32331-03700, Ph: (904) 644-5524, E-mail: warsaw98@mail.fsu.edu, Warsaw 98 Web site: <http://www.ispa.fsu.edu/warsaw/warsaw98.html>.
- Second International Scientific Symposium on Tea and Health, September 15, 1998, USDA Jefferson Auditorium, Washington, DC. Sponsored by the American Cancer Society, the American Health Foundation and the Tea Council of the USA. Contact: (212) 941-1795, or E-mail your name, address, telephone and fax number to: [good4u@aol.com](mailto:good4u@aol.com).
- British Toxicology Society Autumn Meeting, September 20-22, 1998, University of York, UK. Contact: Dr. TJB Gray, Meetings Secretary, Sanford Research, Willowburn Avenue, Altwick, Northumberland NE66 2HT England. Ph: 44-1665-607302, Fax: 44-1665-607510.
- Sixth International Conference on Perspectives in Percutaneous Penetration in collaboration with the Leiden/Amsterdam Centre for Drug Research, September 22-26, 1998, Leiden, The Netherlands. Ph/Fax: +44-1222-874952, E-mail: [ppp@an-ex.co.uk](mailto:ppp@an-ex.co.uk).
- Hepatocyte User Group of North America Annual Meeting, September 28, 1998, Topic: Cryopreservation of Hepatocytes. Contact: Dr. Albert P. Le at Ph: (410) 453-1242, Fax: (410) 453-1245. E-mail: [labert@imvitech.com](mailto:labert@imvitech.com).
- Validity of Animal Models of Human Respiratory Diseases: Liverace Respiratory Research Institute Annual Symposium, September 30-October 2, 1998, La Fonda Hotel, Santa Fe, New Mexico. Contact: Alice Hannon, LRRRI, PO Box 5890, Albuquerque, NM 87185. Ph: (505) 845-1124, Fax: (505) 845-1198, E-mail: [AHANNON@LRRRI.ORG](mailto:AHANNON@LRRRI.ORG) or visit the Web site at: <http://www.liverace-symposium.org>.
- 5th International ISSX Meeting, October 25-29, 1998, Cairns Convention Centre, Queensland, Australia. Contact: Conference Secretariat, P.O. Box 153, Nairne, South Australia 5252, Fax: 61-8-8388-6164.
- 6th Annual Meeting of the General Pharmacology/Safety Pharmacology Discussion Group, October 5-6, 1998, Philadelphia Airport Hilton, Philadelphia, PA. Contact: Dr. A. Bass, Pharmacia & Upjohn, 2000 Portage Road, Kalamazoo, MI 49001, Ph: (616) 833-1130, Fax: (616) 833-1522, E-mail: [Asbass@am.pnu.com](mailto:Asbass@am.pnu.com), or Dr. JoAnne Saye, DuPont Merck, Experimental Station, E400/3458, P.O. Box 80400, Wilmington, DE 19880, Ph: (302) 695-7146, Fax: (302) 695-7407, E-mail: [Jo.A.Saye@dupontmerck.com](mailto:Jo.A.Saye@dupontmerck.com).
- International Symposium on Metal-Binding Proteins in Biology, October 6-10, 1998, Contact: Dr. James Koropatnick at E-mail: [koropat@ulham.uwo.ca](mailto:koropat@ulham.uwo.ca), Ph: (519) 985-8654, Fax: (519) 885-8646, <http://www.ltrcc.on.ca/metal-bind>.

- 1998 International Course on the Safety Assessment of Medicines, October 18-23, 1998, Crown Plaza in the heart of White Plains, NY. Contact: Ms. Nancy Rivera at the American Health Foundation, 1 Dana Road, Valhalla, NY 10595-1599, Ph: (914) 789-7144, Fax: (914) 592-6317, E-mail: [nrivera@ix.netcom.com](mailto:nrivera@ix.netcom.com).
- International Symposium on Pesticide Registration and Harmonization, October 21-22, 1998, Washington Court Hotel Capitol Hill. Contact: the Web site at [www.acpa.org](http://www.acpa.org) or E-mail [Pippa.Craig@acpa.org](mailto:Pippa.Craig@acpa.org).
- The Role of Diet and Caloric Intake in Aging, Obesity, and Cancer, October 26-28, 1998, Hyatt Regency, Reston, VA. Contact: SOT Headquarters, Ph: 703-438-3115, Fax: 703-438-3113, E-mail: [sot@toxology.org](mailto:sot@toxology.org). Visit Web site <http://www.toxicology.org/dietobesity.html>.
- The American College of Toxicology 19th Annual Meeting, November 8-11, 1998, Grosvenor Resort Orlando, FL. Contact: American College of Toxicology, 9650 Rockville Pike Beltsville, MD 20814, Ph: (301) 571-1840, Fax: (301) 571-1852, E-mail: [ekagm@act.faseb.org](mailto:ekagm@act.faseb.org) or visit the Web site: <http://landaus.com/toxicology>.
- Arkansas Toxicology Symposium, Can Rodent Cancer Tests Predict for Human Cancers?, November 12-13, 1998, Doubletree Hotel, Little Rock, AR. Abstract deadline: October 15, 1998. Contact: Jack A. Hinson, Director, UAMS Division of Toxicology, 4301 West Markham, Slot 638, Little Rock, AR 72205, Ph: (501) 686-5766, Fax: (501) 686-0597, E-mail: [hinsonjack@exchange.uams.edu](mailto:hinsonjack@exchange.uams.edu).
- The Natural Connection: Environmental Integrity and Human Health, Society of Environmental Toxicology and Chemistry (SETAC) 19th Annual Meeting, November 15-19, 1998, Charlotte, North Carolina, USA. Contact: SETAC, 1010 North 12th Avenue, Pensacola, FL 32501-3370, Ph: (850) 469-1500, Fax: (850) 469-9778, E-mail: [setac@setac.org](mailto:setac@setac.org); <http://www.setac.org>.
- The Fourth International Conference on Neuroprotective Agents, November 15-19, 1998. Abstracts deadline: September 30, 1998. Contact: William Silker, Jr, Ph: (870) 543-7203, E-mail: [wslsilk@nrcr.fda.gov](mailto:wslsilk@nrcr.fda.gov), or Bruce Tremble Ph: (207) 623-8411, ext. 5033.
- First NSF International Conference on Food Safety: Management-Science, Technology, and Industry, November 16-18, 1998, Hyatt Regency, Albuquerque in Albuquerque, New Mexico. Contact: Wendy Raeder, Ph: (734) 769-8010, Ext. 205, Fax: (734) 769-0109, E-mail: [raeder@nsf.org](mailto:raeder@nsf.org).
- 1998 FDA Science Forum, Biotechnology: Advances, Application, and Regulatory Challenges, December 8-9, 1998, Washington Convention Center, Washington. Contact: Ph: (703) 518-8429, E-mail: [meetings@aaps.org](mailto:meetings@aaps.org).
- 1998 International Conference on Transgenic Animal and Safety Evaluation, December 9-11, 1998, Contact: Andrew White Ph: (617) 389-6168 or (Baltimore office) Nola Mahaney Ph: (301) 233-0894, E-mail: [iscience@aol.com](mailto:iscience@aol.com).
- Society of Toxicology 38th Annual Meeting, March 14-18, 1999, Ernest N. Morial Convention Center, New Orleans, LA. Abstract deadline: October 1, 1998. Contact: SOT Headquarters, 1767 Business Center Drive, Suite 302, Reston, VA 20190-5332, Ph: (703) 438-3115, Fax: (703) 438-3113, E-mail: [annehe@toxology.org](mailto:annehe@toxology.org); Web site: <http://www.toxicology.org>.

# MEDIA OF INTEREST

- **Jump Start Your Career in Bioscience**, by Chandra B. Louise, Ph.D. Contact: Jump Peer Productions, P.O. Box 13724, Research Triangle Park, NC 27709.
- **Comprehensive Toxicology**, In print or CD ROM. Contact Elsevier Science, Customer Support Department, P.O. Box 945, New York, NY 10159-0945, (212) 633-3730, Fax: (212) 633-3680, E-mail: [usinfo@elsevier.com](mailto:usinfo@elsevier.com). Visit the Web site: <http://www.elsevier.nl/locate/comptox>.

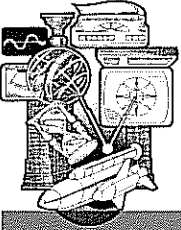
Betty has a Ph.D. and M.S. in Ecology and Evolutionary Biology from the University of California, Irvine, and a B.A. in Biology from Whitman College. Teaching introductory undergraduate biology has occupied the majority of her professional career, including twelve years at Lamar University in Orange, Texas, where she served as division chair and directed summer

SOT's commitment to educational programs is expressed in the addition of a new staff member. **Betty Eidemiller** is the new Director of Education and will be working with the Antimicrobiology as Manager of Faculty Initiatives, Board of Education and Training.

## SOT Introduces New Director of Education

"SOT is in a unique position to participate in the current efforts to reform science education. Toxicology easily meshes with the national science standards because it offers concepts integrating biology, health, environment, technology, and the practice of science. In conveying your message to the K-12 population, you enhance science literacy, and I am pleased to be part of your effort," says Betty.

Betty can be reached at SOT Headquarters at: 703/438-3115 or e-mail: [bettye@toxichology.org](mailto:bettye@toxichology.org).



## HEADQUARTER'S UPDATE

The Regional Chapters play a critical role in many of the future goals of SOT which includes a "grass roots" dissemination of the principles of toxicology. SOT prospers from the continued growth and strengthening of the Regional Chapters. Suggestions for additional assistance that SOT can provide the Regional Chapters are welcomed.

- Insurance - The Regional Chapters are covered under the SOT National's Umbrella Directors and Officers Liability Insurance Policy.
- Federal Tax ID - All Regional Chapters must use the SOT National's Federal Tax ID number; the Society then files the necessary 990 tax form on behalf of each Chapter.

**c. Coverage**  
Links from the SOT web site to all Regional Chapters with a web site.

- b. World Wide Web**
- meeting planning
  - media & public relations
  - education programming
- a. Headquarters is available for consultation in:**

- 3. SOT Headquarters Support:**
- The SOT Council recently approved \$2000 funding to support a Regional Chapter's effort to produce a program that supports SOT's Long-Range Plan. This funding is available to each Regional Chapter and is available on an annual basis. For details please check with SOT Headquarters and the Council Liaison.
- 2. Financial Support:**
- The SOT Council recently approved \$2000 funding to support a Regional Chapter's effort to produce a program that supports SOT's Long-Range Plan. This funding is available to each Regional Chapter and is available on an annual basis. For details please check with SOT Headquarters and the Council Liaison.
- b. SOT Council**
- The members of the SOT Council are available to present SOT topics (e.g., long-range plans) at the Regional Chapter meetings. In addition, the Council members are recognized experts and are also available to do a presentation on their area of research. Cost for Council travel will also be covered by SOT.

- The following are the highlights of the May Council Meeting:**
1. Council voted to support the RAIF proposed 1999 workshop, *In Vitro Human Tissue Models in Risk Assessment*, as a CT meeting.
  2. Following a recommendation by the Metals Specialty Section, Council voted to approve a request for \$1,000 for the international conference on Metal-binding.
  3. Council voted to allocate \$10,000 per year with a maximum of \$2,000 per event to support non-SOT meetings.
  4. Council voted to renew the Risk Assessment Task Force for 3 years, and reduce the number of members from 14 to nine.
  5. Council voted to continue funding the administrative costs for TEF for the 1998-99 Fiscal year.
  6. Council voted to provide funding for the NIEHS Grantee Meeting with TEF.
  7. Council voted to provide \$2,000 to each regional chapter in response to proposals that support the SOT Long-Range Plan.

## COUNCIL HIGHLIGHTS

What is Available to Regional Chapters from SOT  
Continued from page 1